MODIFICATION HISTORY
OF
CLARC Version 3.1

Version 3.1 of CLARC includes several changes and corrections to Version 3.0. Each of the changes or corrections is noted below.

Part III – Calculation of Method B and Method C Cleanup Levels

(1) **Table ® Standard Method B Formula Values for Soil (Unrestricted Land Use)**

    (a) **Column ® Target Method B Ground Water Cleanup Level**

- Changed header to: *"Target Ground Water Cleanup Level"*
- Deleted all values listed in the column
- Inserted the following language in the column:

    "See Focus Sheet No. 01-09-049, "Developing Ground Water Cleanup Standards under the Model Toxics Control Act" in Part I of this document."

    (b) **Column ® Soil Cleanup Level (3-Phase Model)**

- Changed header to: *"Soil Concentration Protective of Ground Water"*
- Deleted all values listed in the column
- Inserted the following language in the column:

    "To calculate a soil concentration that is protective of ground water, use the "Workbook for Calculating Cleanup Levels for Individual Hazardous Substances" (MTCASGL10.XLS) located at http://www.ecy.wa.gov/programs/tcp/cleanup.html*."*

(2) **Table ® Standard Method C Formula Values for Soil (Industrial Land Use)**

    (a) **Column ® Target Method C Ground Water Cleanup Level**

- Changed header to: *"Target Ground Water Cleanup Level"*
- Deleted all values listed in the column
- Inserted the following language in the column:

    "See Focus Sheet No. 01-09-049, "Developing Ground Water Cleanup Standards under the Model Toxics Control Act" in Part I of this document."

(b)   Column ® Soil Cleanup Level (3-Phase Model)

- Changed header to: *"Soil Concentration Protective of Ground Water"*
- Deleted all values listed in the column
- Inserted the following language in the column:

    "To calculate a soil concentration that is protective of ground water, use the "Workbook for Calculating Cleanup Levels for Individual Hazardous Substances" (MTCASGL10.XLS) located at http://www.ecy.wa.gov/programs/tcp/cleanup.html*."*

(3)   DELETED Table ® Values for Other Chemical-Specific Parameters

- Deleted table and created two new tables to replace it. The values in the table have been corrected (see notes below).

(4)   NEW Table ® Chemical-Specific Parameter Values
**   Toxicological Properties**
**   Bioconcentration Factors and Inhalation Correction Factors**

Except as noted below, the bioconcentration factor values and the inhalation correction factor values are the same as in Version 3.0.

- For arsenic, INH value changed from "2" to "1"

(5)   NEW Table ® Chemical-Specific Parameter Values
**   Physical and Chemical Properties**

- Deleted all values listed in Version 3.0 and replaced with correct values for each of the physical-chemical parameters: Koc, Kd, Hcc, and S. The values in Version 3.0 should be disregarded.
- Added column for references.

Part V – Background Information

(6)   Notes on Chemical-Specific Parameters – Physical and Chemical Properties

- Amended notes on each of the physical-chemical parameters (Koc, Kd, Hcc, and S) to include complete citations, as well as a key, to each of the reference sources identified in the table of values in Part III.